Index of Claims

| Application No.   | Applicant(s)    |    |
|-------------------|-----------------|----|
| 09/580,695        | MCCULLOUGH ET A | L. |
| Examiner          | Art Unit        |    |
| Jennifer A. Leung | 1764            |    |

| / | Rejected | _ | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | + | Restricted                     |

|   | 7 | Non-Elected  |
|---|---|--------------|
| Γ | _ | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla   | aim               |  |                 |          | D        | ate      |        |         |          |        | Cla  | aim      |                        | Date        | 9                |                 |   |   | Cla   | aim        |                 |           |              | Date   | ····            |          | _              | _ |
|-------|-------------------|--|-----------------|----------|----------|----------|--------|---------|----------|--------|--|----------|------------------------|-------------|------------------|-----------------|---|---|-------|------------|-----------------|-----------|--------------|--|-----------------|----------|----------------|---|
| Final | Original          | 4/24/24  |                 |          |          |          |        |         |          |        | Final  | Original |                        |             |                  |                 |   |   | Final | Original   |                 |           |              |  |                 |          |                |   |
|       | (1)               |  |                 |          | #        |          | +      |         |          |        |  | 51       |                        | <del></del> |                  |                 |   |   |       | 101        |                 | #         | $\vdash$     |  |                 |          |                | _ |
|       | 2                 | Ц  | Ш               |          |          |          |        | $\perp$ |          |        |  | 52       |                        |             |                  | 1               |   |   |       | 102        |                 | $\perp$   | _            | Ш  |                 | _        | _ļ             |   |
|       | 3                 | Ц  |                 |          |          | _        |        | $\perp$ |          |        |  | 53       | $\bot$                 | _           |                  | -               |   |   |       | 103        |                 | _         | <del> </del> |  |                 | _        | _              |   |
|       | 4                 | Ц  |                 |          | _        | $\perp$  | _      | 1_      |          |        |  | 54       |                        |             |                  | $\perp$         |   |   |       | 104        |                 | $\perp$   | 1            |  |                 | _        | _              |   |
|       | 5                 | $\perp$  |                 |          | $\perp$  |          |        |         |          |        |  | 55       |                        |             |                  | $\perp \perp$   |   |   |       | 105        |                 | _         | 1_           |  |                 | _        | _              |   |
|       | 6                 | Ш  |                 |          | 4        | _        | ┸      | $\perp$ |          |        |  | 56       |                        |             |                  | -               |   |   |       | 106        |                 |           | <u> </u>     | _  |                 | _        |                |   |
|       | 7                 | Щ  |                 |          | _        | _        |        | 1       |          |        |  | 57       |                        |             |                  | +               |   |   |       | 107        | -               | _         | -            |  |                 | -        | _              | _ |
|       | 8                 | Щ  |                 |          |          | 4        | _      | 1       |          |        |  | 58       |                        |             |                  | +               |   |   |       | 108        |                 | _         | -            |  |                 | _        | _              | _ |
|       | 9                 | Ц  |                 | _        | _        | _        |        |         |          |        |  | 59       |                        |             |                  | +               |   |   |       | 109        | -               | _         | +-           |  |                 | $\dashv$ | $\dashv$       | _ |
|       | 10                | Ц  |                 | _        |          | $\perp$  |        | $\bot$  |          |        |  | 60       |                        | _           |                  | +               |   |   |       | 110        |                 | -         | -            |  |                 | $\dashv$ | $\dashv$       | _ |
|       | 11                | Ц  | $\sqcup$        | _        | $\perp$  | $\perp$  |        |         |          |        | L  | 61       | $\perp$                | -           | -                | 4               | _ |   |       | 111        |                 | -         | +-           | <u> </u>   | -               | $\dashv$ | $\dashv$       | _ |
|       | 12                | H  | $\vdash \vdash$ | $\dashv$ | +        |          |        | +       |          |        | ļ  | 62       | <del>      - </del> -  | -           | $\vdash$         | +               |   |   |       | 112        |                 | +         | +            | -  | $\vdash \vdash$ | $\dashv$ |                |   |
|       | 13                | ${\mathbb H}$                                    | $\vdash$        | $\dashv$ | -        | +        | +      | +       |          |        |  | 63       |                        |             | $\vdash \vdash$  | +               |   |   |       | 113<br>114 |                 | -         | +            | -  | $\vdash$        | $\dashv$ | $\dashv$       | _ |
|       | 14                | ${f H}$  | -               |          | +        | +        | -      | +       |          |        |  | 64       |                        | +           | $\vdash$         | +               |   |   |       |            | -+              | +         | +            | $\vdash$   | $\vdash\vdash$  | $\dashv$ | $\dashv$       | _ |
|       | 15                | $\dashv$   |                 | $\dashv$ | +        |          |        | -       |          |        |  | 65       |                        | +-          | $\vdash$         |                 | _ |   | _     | 115        | -               | +         | +            | $\vdash$   | Н               | $\dashv$ | $\dashv$       | _ |
|       | 16                | H  | $\vdash \vdash$ | -+       | $\dashv$ | -+       | +      | +       | _        |        |  | 66<br>67 |                        | +           |                  |                 |   |   | -     | 116<br>117 | +               | +         | +-           | -  |                 |          |                | - |
|       | 17                | Н  | Н               |          |          | -+       | -      | +-      |          |        | -  |          | <del></del>            |             | <del>  -</del>   | +               |   |   |       |            |                 |           | +            | -  | -               | -        | -              | _ |
|       | 18                | -  | $\vdash$        | $\dashv$ | -+       |          | -      | +       |          |        |  | 68<br>69 | + + +                  | _           | ┝                | +               |   |   |       | 118<br>119 | -               | +         | -            | -  |                 | -+       | $\dashv$       |   |
|       | 19                | H  | Н               | -+       | -        |          | -      | +       |          |        |  |          |                        |             |                  |                 |   |   |       |            |                 |           |              |  |                 | $\dashv$ | $\dashv$       | _ |
|       | 20                | 1  | Н               |          |          | -        | +      | +       |          | 1      |  | 70       |                        |             | -                | +               |   |   |       | 120<br>121 | <del></del>     | - -       |              | -  | $\vdash$        | -        | -              | _ |
|       | 21                | +  | $\vdash$        |          | $\dashv$ |          | +      |         |          |        |  | 71<br>72 |                        |             |                  | +               |   |   |       | 122        |                 | +-        | +            | <b>.</b>   |                 | $\dashv$ | $\dashv$       | _ |
|       | 22                | H  | -               | $\dashv$ | $\dashv$ | +        |        |         | -        | 1      |  | 73       |                        |             |                  | +               |   |   |       | 123        |                 | +         | +            | ⊢  | H               | $\dashv$ | $\dashv$       | _ |
|       | 23                | ╁  | H               | _        | +        | _        |        |         |          | 1      |  | 74       |                        | +           | $\vdash$         | +               | _ |   |       | 123        |                 | +         | +            |  | Н               | $\dashv$ |                | _ |
|       | 24<br>(25)        | H,   | ┨               |          | -+       |          | +      | +       | -        |        |  | 75       |                        | +           | $\vdash$         | +               |   |   |       | 125        | +               | +         | +-           | <u> </u>   |                 |          |                | - |
|       | ( <del>5</del> 3) | -  | H               |          |          |          |        | +=      |          |        |  | 76       | - $+$ $+$ $+$          | +           |                  | +               |   |   |       | 126        | $\dashv$        | +         | +            | $\vdash$   | Н               | -        |                | _ |
|       | 26<br>27          |  |                 |          | <b>-</b> |          | -      |         |          |        |  | 77       | -++                    | -           | $\vdash$         | +               |   |   |       | 127        | $\dashv$        | +         | +            | $\vdash$   | Н               | $\dashv$ | $\dashv$       | _ |
|       | 28                | -  | -               |          | $\dashv$ | $\dashv$ | +      |         |          |        | <del> </del>                                     | 78       |                        |             | $\vdash$         | +               |   |   |       | 128        | +               | +         | +            | $\vdash$   | Н               | -+       |                | - |
|       | 29                | -  | Н               | +        | +        | -        |        |         | -        |        | <del>                                     </del> | 79       |                        |             | $\vdash$         | +               |   |   |       | 129        | -               | +-        | +            |  |                 |          | $\dashv$       | - |
|       | 30                | $\vdash$   | Н               | $\dashv$ | $\dashv$ | $\dashv$ | +      |         |          |        |  | 80       |                        | _           |                  | +               |   |   |       | 130        |                 | +         | +            | <del> </del>                                     | Н               | $\dashv$ | -              | - |
|       | 31                | $\vdash$   | Н               |          | -+       | -+       |        | +       |          |        | <u> </u>   | 81       |                        |             |                  | $\dashv \dashv$ |   |   |       | 131        |                 | ╁         | +            |  |                 | -        | -              | - |
|       | 32                |  | +-              | +        | $\dashv$ | $\dashv$ | +      | +       |          | 1      |  | 82       |                        | +           | <del>   -</del>  | +-1             |   |   |       | 132        |                 | +         | +            |  |                 |          |                | _ |
|       | 33                |  | H               |          | $\dashv$ |          |        | +       |          |        |  | 83       |                        | -           | <del>     </del> | +               |   |   |       | 133        | -               | +         | +            | $\vdash$   | $\vdash$        | $\dashv$ |                | - |
|       | 34                | $\vdash$   | +               | +        | $\dashv$ | +        | +      | +       | -        | t      | <del> </del>                                     | 84       |                        | +           |                  | +               |   |   |       | 134        | -               | +         | +-           | <del> </del>                                     | -               | $\vdash$ |                | - |
|       | 35                | -  | H               | $\dashv$ | $\dashv$ | -+-      |        | +       | Н        |        | <u> </u>   | 85       |                        | +           | ++               | +               |   | l |       | 135        |                 | ╅         | +-           | t  |                 |          | _              | _ |
|       | 36                | -  | Н               | -+       | $\dashv$ | $\dashv$ | +      | +       | $\vdash$ | 1      | <del>                                     </del> | 86       |                        | +-          | $\vdash$         | +               |   |   |       | 136        | -               | - -       | +            | t  | -               |          | <del>-  </del> | _ |
|       | 37                |  | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\top$ | +       |          | 1      |  | 87       |                        |             | +                | +-              |   |   |       | 137        | $\dashv$        | $\top$    | +            | <del>                                     </del> |                 |          |                | _ |
|       | 38                | _  | $\Box$          | $\dashv$ | $\dashv$ | $\dashv$ | -      | $\top$  |          | 1      | <u> </u>   | 88       | <del></del>            |             | $\vdash$         | +               |   |   |       | 138        | $\dashv$        | $\top$    | +            | $\vdash$   | $\vdash$        |          |                | _ |
|       | 39                |  | Н               | $\dashv$ | $\dashv$ | $\neg +$ | - -    | -       | <u> </u> |        |  | 89       | <del></del>            |             | $\vdash$         | ++              |   | 1 |       | 139        | -               | $\top$    | +            | t  |                 |          | 一              | _ |
|       | 40                | _  | T               | $\dashv$ | $\dashv$ | 十        | _ _    | +       |          | 1      | <u> </u>   | 90       |                        |             |                  | + +             |   |   |       | 140        | $\dashv$        | +-        | +-           | r  | $\Box$          |          | $\dashv$       | _ |
|       | 41                | <del>                                     </del> | $\Box$          | $\dashv$ | -        | $\dashv$ |        | 1       |          | 1      | <u> </u>   | 91       |                        | $\top$      | $\Box$           | 11              |   |   |       | 141        | $\dashv$        | $\dagger$ | †            | <del> </del>                                     | -               | $\Box$   |                | _ |
|       | 42                |  |                 | $\dashv$ | $\dashv$ | $\dashv$ | _      | 1       | <u> </u> | 1      |  | 92       |                        | 1           |                  | 1-              |   | 1 |       | 142        | $\dashv$        | $\top$    | 1            | 1  | _               |          | $\neg$         | _ |
|       | 43                | Г  |                 | -+       | $\neg$   | $\top$   | $\top$ | 1       | $\vdash$ | 1      |  | 93       | <del>-   -   -  </del> |             | $\sqcap$         | 11              |   | 1 |       | 143        | $\neg \uparrow$ | $\top$    | 1            |  |                 |          |                | _ |
|       | 44                | Г  | П               | _        | _        | $\dashv$ | $\top$ |         |          | 1      | · · · ·  | 94       |                        |             | -                | 11              |   | 1 |       | 144        | _               | $\top$    | 1            | 1  |                 |          |                | _ |
|       | 45                | Γ  | T               | 7        | $\neg$   |          |        | 1       |          | 1      |  | 95       |                        |             |                  | $\top$          | _ | 1 |       | 145        |                 | $\top$    | 1            | T  |                 |          | $\neg$         | _ |
|       | 46                |  | $\Box$          | $\dashv$ | $\dashv$ | $\top$   | $\top$ | 1       |          | 1::::: |  | 96       |                        |             | $\sqcap$         | 1-1             |   | 1 |       | 146        | $\top$          | $\top$    | †            | <del>                                     </del> |                 | $\Box$   |                | _ |
|       | 47                | Г  | П               | $\dashv$ | $\neg$   | _        | $\top$ |         |          | 1      | ļ  | 97       |                        |             |                  | 11              |   |   |       | 147        |                 | 1         | +            | Ī  |                 |          | 一              | _ |
|       | 48                | _  | $\Box$          |          | $\dashv$ | $\top$   | _      |         |          | 1      |  | 98       |                        | $\top$      |                  | 11              |   |   |       | 148        | $\dashv$        | $\top$    |              | 厂  |                 |          | $\neg$         | _ |
|       | 49                | Г  |                 |          | $\neg$   | $\top$   |        | 1       | T        | 1      |  | 99       |                        |             | $\Box$           | $\top$          |   | 1 |       | 149        | _               | $\top$    | 1            | <b>†</b>   |                 |          | 一              | _ |
|       | 50                | Н  | 1               | T        | $\dashv$ |          |        | $\top$  | Г        | 1      |  | 100      |                        |             |                  |                 |   | 1 |       | 150        | -               | T         | +            | 1  |                 | _        | _              | _ |